

A list of research products, information and services, models and model simulations, and an assessment of their impact (1g)

There are no updates reported here for Fiscal Year 2010 for the following sub-sections: Assessments, Models, Data, and Simulations.

GFDL's principal research product is peer-reviewed publications on atmospheric and oceanic dynamics, natural climate variability, and anthropogenic change. Its publication record is discussed in Supporting Documents 1a and 1c. There are a number of other important products and services provided by GFDL that are discussed here.

Assessments

GFDL has played a major role in a number of assessments related to climate change and ozone. These include the following IPCC Assessment Reports:

1990 "FAR": Future projections based largely on GFDL model. 6 GFDL personnel contribute to the Report.

1995 "SAR": GFDL model one of ~6 models used for future projections. 9 GFDL personnel contribute to the Report.

2001 "TAR": GFDL model is "2nd tier" out of ~12 models. 15 GFDL personnel contribute to the Report.

2007 "AR4": GFDL CM models (CM2.0 and CM2.1) are two of the best out of ~24 models. 20 GFDL personnel contribute to the Report.

The IPCC, along with GFDL contributors to it, was a co-recipient of the 2007 Nobel Peace Prize for its sustained efforts to build up and disseminate greater knowledge about man-made climate change, and to lay the foundations for the measures that are needed to counteract such change.

For the IPCC 5th Assessment Report (AR5) due in 2013, GFDL will include contributions from new Earth System Models based on CM2.1, decadal predictions using CM2.1, results from a new coupled climate model, CM3, so-called "time slice integrations" using a high-resolution atmospheric model, and a limited number of high-resolution coupled model integrations.

In addition to the IPCC assessments on climate change, two GFDL scientists have ongoing contributions to a set of reports on ozone:

1998 UNEP Scientific Assessment of Ozone Depletion

2002 UNEP Scientific Assessment of Ozone Depletion

2005 IPCC Special Report on "Safeguarding the Ozone Layer and the Global Climate System"

2006 UNEP Scientific Assessment of Ozone Depletion

GFDL scientists contributed to the following Synthesis and Assessment Reports (SAPs) from the Climate Change Science Program (CCSP):

- 1.1 - Temperature Trends in the Lower Atmosphere: Steps for Understanding and Reconciling Differences
- 2.4 - Trends in emissions of ozone-depleting substances, ozone layer recovery, and implications for ultraviolet radiation exposure
- 3.1 - Climate Models: An Assessment of Strengths and Limitations
- 3.2 - Climate Projections Based on Emissions Scenarios for Long-Lived and Short-Lived Radiatively Active Gases and Aerosols
- 3.3 - Weather and Climate Extremes in a Changing Climate
- 3.4 - Abrupt Climate Change

GFDL was the lead in the development of SAP 3.2.

Models

GFDL provides numerical models to its collaborators and the public through its Data Portal (<http://data1.gfdl.noaa.gov/>). These models include:

Ocean Models: The Modular Ocean Model (MOM) is used by over 500 ocean researchers worldwide. An ocean model that represents Generalized Ocean Layer Dynamics (GOLD) is being used by GFDL's university collaborators.

Atmospheric models: The finite volume (fv) dynamical core expressed on a latitude-longitude horizontal grid is being used by GFDL's university collaborators, other NOAA research laboratories, and at the Department of Energy. These customers are also using the atmospheric physics package that was in GFDL's world-class coupled climate models from the Intergovernmental Panel on Climate Change (IPCC) 4th assessment Report (AR4). A version of the FV dynamical core expressed on a cubed sphere, featured in GFDL's newest coupled climate models, is also shared with its NASA collaborators. Even older versions of GFDL's models, such as its spectral dynamical core, are still in use by university researchers worldwide.

Other GFDL models are available through GFDL's Source Code Repository (<https://fms.gfdl.noaa.gov/gf/>) but are unsupported.

Data

Public data sets from GFDL are made available through the GFDL Data Portal. The Data Portal is designed to allow one to download files, display data files attributes, and graphically display the data. One can download complete files via "http" and "ftp" access. One can also display data file attributes that provide information about file contents without having to download the file

itself. Continued development of the Live Access Server is ongoing to enhance the ability of a remote user to graphically display the data.

Registration for the GFDL Data Files is free. Users are requested to complete the Registration Form for Public Data Files (found on the right hand menu) when they first begin using the data portal. Information from this form will be used to provide registered users with news on when additional public data becomes available and when corrections are made to existing public data. The information gathered will not be used for any purposes other than to send notices about GFDL Data Portal Services.

The data files on the data portal are stored in netCDF (network Common Data Form). The files are intended to be compliant with the COARDS conventions for the standardization of netCDF files.

From March 2006 through April 2009, the GFDL Data Portal has served 260,000 requests for files, roughly 200,000 via HTTP the rest via FTP to 1,300 distinct hosts. These requests were for 22,000 distinct files (a “distinct file” is a distinct file served to a distinct host). These files total 75.5 terabytes of netCDF data. In 2009 alone, GFDL is sending out an average of ~8 TB of data per month, or about 24,000 fulfilled requests monthly.

Simulations

Model output and documentation from a set of multi-century experiments performed using GFDL’s CM2.0 and CM2.1 models are available to the public (<http://nomads.gfdl.noaa.gov/CM2.X/>). Data sets accessible from the GFDL Data Portal include those from CM2.X experiments associated with the Intergovernmental Panel on Climate Change’s 4th Assessment Report (IPCC AR4) and the US Climate Change Science Program (US CCSP). A subset of this data was sent to the Department of Energy’s Program for Climate Model Data and Intercomparison (PCMDI), the central data repository in support of the IPCC AR4.

Real-time seasonal forecasts over North America are available at GFDL’s website (<http://gfdl.noaa.gov/seasonal-to-interannual-experimental-predictions>) as a research product.

Presentations

GFDL scientists share their findings and results through active participation at national and international conferences. On the pages that follow are two tables, one of the host-paid invited talks presented by GFDL scientists and the other of GFDL paid talks at various conferences and workshops, all during Fiscal Years 2008 through 2010:

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Host-paid Invited Talks				
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)
7/26/2010	Stock, Charles	Climate Change Projections for the Northwest Atlantic	NMFS Scientist Meeting	Boston, MA
7/7/2010	Vecchi, Gabriel	Climate and Hurricanes	CLIVAR Summit and Panel Meeting	Denver, CO
6/22/2010	Ramaswamy, V	Absorbing Soot Aerosols, Their Properties, and Climate Change	2010 Western Pacific Geophysics Meeting	Taipei, Taiwan
6/2/2010	Held, Isaac	Probing the Fast and Slow Climate Responses to Changes in Radiative Forcing	University of California-Irvine	Irvine, CA
6/1/2010	Knutson, Thomas	Hurricanes and Climate Change	Participate on Climate Modeling Panel for World Bank's Understanding Risk Conference	Washington DC
5/25/2010	Field, Arlene	Local to Hemisphere Influences of BVOCs on Air Quality	Biogenic Hydrocarbon Gordon Research Conference	Les Diablerets, Switzerland
4/26/2010	Ramaswamy, V.	Climate Sensitivity by Extremes: Assessing the Risk	NASA	New York City, NY
4/12/2010	Dixon, Keith	NOAA Regional Climate Literacy Training Workshop	The State of Climate Change Science - An Overview	Narragansett, RI
2/25/2010	Dixon, Keith	Exploring the Promise and Limitation of Decadal Climate Predictability: Efforts at NOAA GFDL	2nd Annual International Workshop on Global Change Projection	Tsukuba, Japan
2/25/2010	Knutson, Thomas	Atlantic Hurricanes and Climate Change	2nd Annual International Workshop on Global Change Projection	Tsukuba, Japan
2/10/2010	Knutson, Thomas	Atlantic Hurricanes and Climate Change	University of Michigan	Ann Arbor, MI
2/7/2010	Wilson, Robert J.	Simulation of the 2001 Planet-Encircling Dust Event with the NASA/NOAA Mars General Circulation Model	NASA AMES Research Center-MARS Modeling Group	Mountainview, CA
2/6/2010	Vecchi, Gabriel	Hurricane and Climate	M.I.T.	Cambridge, MA
11/27/2009	Knutson, Thomas	Modeling Approaches to the Problem of Tropical Cyclones and Climate Changes	3rd Annual Modeling Workshop at the Centre for Australian Weather and Climate Research	Melbourne, Australia

Host-paid Invited Talks				
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)
11/6/2009	Held, Isaac	Some Puzzle Concerning the Response of Poleward Atmospheric Energy Transports to Climate Change	Workshop on Ocean-Atmosphere Energy Transport	Pasadena, CA
10/28/2009	Golaz, Jean-Christophe	Use of Large Eddy Simulation in Boundary Layer Cloud Parameterization	SUNY-Stony Brook	Stony Brook, NY
6/21/2009	Dixon, Keith	The Atmosphere-Ocean Connection in the Earth's Climate System	AMS Broadcast Mets Pre-Conference Workshop	Portland, OR
5/31/2009	Vecchi, Gabriel	Indian Ocean Climate Change and Variability in GFDL Coupled Model	CLIVAR Indian Ocean Panel Meeting	St. Denis, La Reunion, France
5/29/2009	Dixon, Keith	Glimpse From Inside the Fascinating World of Modeling (Climate)	NOAA Hollings Scholars Orientation	Silver Spring, MD
5/18/2009	Levy, Hiram	Interactions Between Climate and Air Quality	30th NATO/SPS International Technical Meeting on Air Pollution	San Francisco, CA
5/4/2009	Delworth, Thomas	Simulated Atlantic Meridional Overturning Circulation (AMOC) Response to Climate Change in a High Resolution Global Coupled Climate Model	Atlantic Meridional Overturning Circulation Meeting	Annapolis, MD
4/28/2009	Ramaswamy, V.	Quantifying Climate Change: Challenges and Opportunities	Special Session- International Human Dimensions Programs Meeting	Bonn, Germany
4/23/2009	Knutson, Thomas	Atlantic Hurricanes and Global Warming	Tokyo Marines 4th Summit on Global Warming and Climate Change	Atlanta, GA
4/19/2009	Vecchi, Gabriel	Climate Change Signature in the Eastern Equatorial Pacific	Galapagos Climate Change Workshop	Galapagos, Ecuador
4/3/2009	Wittenberg, Andrew	Understanding & Simulating El Niño: Lessons From the GFDL Coupled GCMs	CSIRO Marine Laboratories	Hobart, Tasmania
3/31/2009	Wittenberg, Andrew	Understanding & Simulating El Niño: Lessons From the GFDL Coupled GCMs	Bureau of Meteorology (CAWCR)	Melbourne, Australia
3/26/2009	Wittenberg, Andrew	CO ₂ -induced Changes in Tropical Climate, As Simulated by the GFDL Coupled GCMs	International ENSO Workshop, Greenhouse 2009	Perth, Australia
3/4/2009	Vecchi, Gabriel	Cooperative Actions for Disaster Risk Reduction	Climate Change and Wind	Tokyo, Japan

Host-paid Invited Talks				
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)
2/18/2009	Gnanadesikan, Anand	GFDL's Earth System Modeling Efforts as Part of AR5	JAMSTEC Workshop on Earth System Modeling	Yokohama, Japan
2/18/2009	Levy, Hiram	CCSP 3.2: Air Quality vs. Climate	ESRL	Boulder, CO
2/10/2009	Ramaswamy, V.	The Science of Climate Modeling: What Has Been Accomplished and What Are the Challenges?	NOBLIS	Falls Church, VA
1/29/2009	Donner, Leo J.	Convection System and Large-Scale Flow	Royal Academy Symposium on Numerical Simulations in Science and Engineering	Seville, Spain
1/29/2009	Gnanadesikan, Anand	What if the Ocean Were Blue? The Impact of Shortwave Absorption on Climate	Old Dominion University	Norfolk, VA
12/12/2008	Knutson, Thomas	Have Humans Affected Atlantic Hurricane Climate?	Lamont-Doherty Earth Observatory	Palisades, NY
12/3/2008	Ginoux, Paul	NOAA GFDL Dust Modeling Effort/AEROCOM Dust Project and Evaluation Data	NOAA/NCEP	Washington, DC
11/18/2008	Held, Isaac	Aspects of the Theory of Telecommunications	Conference on Teleconnections in the Atmosphere and Oceans	Trieste, Italy
11/17/2008	Lau, Ngar-Cheung	The Role of Air-Sea Interaction in the Climatological Evolution and ENSO-Related Variability of the Summer Over South China Sea and Western Pacific	Conference on Teleconnections in the Atmosphere and Oceans	Trieste, Italy
10/21/2008	Findell, Kirsten	Impact of Common SST Anomalies on Global Drought and Pluvial Frequency	US CLIVAR Drought Working Group Meeting	Lincoln, NE
10/2/2008	Vecchi, Gabriel	Tropical Circulation, Global Warming and the Future	University of Arizona	Tucson, AZ
10/2/2008	Wittenberg, Andrew	Natural and Forced Modulation of ENSO in the GFDL CM2.1 Coupled GCM	Department of Atmospheric & Oceanic Science, University of Maryland	College Park, MD
9/22/2008	Vecchi, Gabriel	Coupled Air-Sea Interaction in Indian Ocean Cooling Events	CIRENE Conference	Paris, France
9/20/2008	Griffies, Steve	Developments within WGOMD and Recommendations for AR5	CLIVAR WGCM Meeting	Paris, France

Host-paid Invited Talks				
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)
9/20/2008	Ramaswamy, V.	Lecture on Overview of Climate Theory of Climate Change; Aerosol and Climate	International Summer School on Atmospheric and Oceanic Sciences 2008	L'Aquila, Italy
6/29/2008	Dixon, Keith	Aspen Global Change Institute	Exploring Decadal Predictability in GFDL's CM2.1 Model	Aspen, CO
6/10/2008	Knutson, Thomas	Climate Change and Hurricanes	University of Rhode Island-Narragansett Bay	Narragansett Bay, RI
6/5/2008	Ramaswamy, V.	Global Warming Potential in AR 4	United Nations Framework Convention on Climate Change /Subsidiary Body for Scientific and Technological Advice /Intergovernmental Panel on Climate Change Meeting	Bonn, Germany
5/16/2008	Dixon, Keith	Forecasting Climate Change	Scripps Howard Institute for the Environmental Workshop for Reporters	Jupiter, FL
4/21/2008	Ramaswamy, V.	Role of Anthropogenic Aerosols on Changes in Asian Monsoon System	International Workshop on Anthropogenic Changes of Asian Monsoon	Nanjing, China
4/8/2008	Knutson, Thomas	Have Humans Affected Atlantic Hurricane Climate?	Bahamas Weather Conference	Grand Bahamas Island, Bahamas
3/12/2008	Toggweiler, J. Robert	What the Ice Ages Are Trying to Tell Us About Climate Sensitivity	Leverhulme Symposium	Cambridge, United Kingdom
3/10/2008	Griffies, Steve	Physical Problems in Simulating the Global Ocean Climate	American Physical Society Condensed Matter Meeting	Washington, DC
2/19/2008	Knutson, Thomas	Hurricanes and Climate Change	University of Miami	Miami, FL
1/12/2008	Held, Isaac	Large-Scale Atmospheric Dynamics and Global Warming	University of Miami	Miami, FL

Host-paid Invited Talks				
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)
12/18/2007	Winton, Michael	Does the Arctic Sea Ice Have a Tipping Point?	Harvard University	Cambridge, MA
11/27/2007	Vecchi, Gabriel	Tropical Pacific Signature of Global Warming	CLIVAR Workshop on Western Tropical Pacific	Guangzhou, China
11/26/2007	Ramaswamy, V.	Radiative Forcing Agents	World Climate Research Program/International Center for Theoretical Physics Workshop	Trieste, Italy
11/19/2007	Ramaswamy, V.	Aerosol - Climate Interactions: A Modeling Perspective	Diamond Jubilee Celebration - International Symposium on Aerosol-Chemistry Climate Interaction	Ahmadabad, India
11/1/2007	Knutson, Thomas	Hurricanes and Climate Change	International Workshop on Wave Hindcasting and Forecasting and Coastal Hazards	Oahu, HI
10/20/2007	Ginoux, Paul	Analysis of Dust Transport and Deposition to Antarctica Observed by the A-Train Instruments, Measured In Ice Core Data, and Simulated with the GFDL Model	A-Train Symposium and VI-Aerocom Meeting	Lille, France
10/11/2007	Dixon, Keith	Using Computer Models to Investigate the Role of the Ocean in Global Climate Change and Learning About Earth's Climate via a Synthesis of Observations, Theory, and Computer Modeling	2007 Association of Science-Technology Centers Conference	Los Angeles, CA
10/9/2007	Winton, Michael	Considering Arctic Sea Ice Stability	Stony Brook University	Stony Brook, NY
10/1/2007	Ramaswamy, V.	Radiative Forcing Climate: Uncertainties and Gaps	World Climate Research Programs/International Geosphere-Biosphere Program/Global Climate Observing System Workshop	Sydney, Australia

GFDL-paid Talks -- Invited and Not-Invited					
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)	Invited
12/4/2010	Ginoux, Paul	Dust Emission: Employing Land-Use Data in Calculating Emissions	Coordinated US Initiative on Emissions Research Workshop	Boulder, CO	Yes
9/27/2010	Held, Isaac	The Time Scales of the Climatic Response to A Change in Radiative Forcing	Scientific Symposium in Hone of Prof. John M. Wallace	Seattle, WA	Yes
9/27/2010	Lau, Ngar-Chueng	Impacts of Downstream Eddy Development on the North Atlantic Atmospheric Circulation During ENSO.	Scientific Symposium in Hone of Prof. John M. Wallace	Seattle, WA	Yes
9/25/2010	Knutson, Thomas	Atlantic Hurricanes and Climate Change: Modeling Studies	Workshop on Metrics and Methodologies of Estimate of Extreme Climate Events	Paris, France	Yes
9/22/2010	Ramaswamy, V.	Advancement in High Performance Computing Resources to the Exascales and Benefit for Climate Modeling and Prediction	House Staff	Washington DC	Yes
9/22/2010	Field, Arlene	Anthropogenic and Biogenic Contributions to Intercontinental Transport of Ozone Pollution at Northern Mid-Latitudes	Stony Brook University	Stony Brook, NY	Yes
9/22/2010	Ginoux, Paul	Comparison of Global Dust Source Inventories	AEROCOM Workshop	Oxford, UK	Yes
9/21/2010	Zhang, Rong	Atlantic Meridional Overturning Circulation and Climate	University of Delaware	Newark, DE	Yes
9/20/2010	Delworth, Thomas	Decadal Climate Variability and the Role of the Ocean	CLIVAR Decadal Variability Workshop	Boulder, CO	Yes
9/20/2010	Griffies, Stephen	Sensitivity of Simulated Atlantic Variability to Ocean Physics and Formulation	CLIVAR Decadal Variability Workshop	Boulder, CO	Yes
9/20/2010	Vecchi, Gabriel	Indian Ocean Decadal Variability	CLIVAR Decadal Variability Workshop	Boulder, CO	No
9/20/2010	Zhang, Shaoqing	The Adequacy of Observation Systems in Monitoring AMOC and North Atlantic Climate	CLIVAR Decadal Variability Workshop	Boulder, CO	Yes
9/19/2010	Rosati, Anthony	Decadal Predictions at GFDL	Workshop on Decadal Prediction	Boulder, CO	Yes
9/17/2010	Gnanadesikan, Anand	Radiocarbon as on Earth System Tracer	Comer Foundation's Changelings Workshop	Soldier's Grove, WI	Yes

GFDL-paid Talks -- Invited and Not-Invited					
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)	Invited
9/7/2010	Dixon, Keith	Projection of 21st Century Climate Changes - Global, Regional, and Local	Roundtable for "Floodplains Management in Coastal Zones and Adaptation to Climate Changes and Climate Variability"	Washington DC	Yes
9/7/2010	Lin, Shian-Jiann	The GFDL Non-Hydrostatic Dynamical Core on the Cubed Sphere and The Global Cloud-Resolving Model Developments	Earth Systems Prediction Capability (ESPC) Workshop	Boulder, CO	Yes
9/3/2010	Bender, Morris	GFDL Hurricane Initialization	NCEP	Camp Springs, MD	Yes
8/6/2010	Fan, Songmaio	Using Atmospheric and Oceanic Observations to Improve Global Modeling of Mineral Dust Aerosol and Aeolian Input of Soluble Iron to the Ocean	International Symposium on Asian Dust/Aerosols and Its Impact on Global Climate Change	Shanghai, China	Yes
7/18/2010	Wilson, Robert J.	(1) The 2001 Mars-Encircling Dust Events: Storm Description and GCM Simulations (2)	The 38th Scientific Assembly of the Committee on Space Research (COSPAR)	Bremen, Germany	Yes
7/12/2010	Delworth, Thomas	Decadal Predictability and Predictions Using GFDL Coupled Models.	UK Rapid Meeting	Exeter, UK	yes
7/5/2010	Ramaswamy, V.	Hurricane and Climate: Results from Recent GFDL Research	Willis Research Network Extreme Weather and Climate Liaison Group Meeting	London, UK	Yes
6/30/2010	Hallberg, Robert	Large-Scale Consequence of Plumes of Dissolved Oil from the Deepwater Horizon Spill	NOAA/AMOL sponsored meeting on "Gulf of Mexico Monitoring in Support of Oil Spill Efforts"	Miami, FL	Yes
6/27/2010	Freidenreich, Stuart	Surface Flux Biases in the Coupled GFDL GCM	13th Conference on Atmospheric Radiation	Portland, OR	Yes
6/23/2010	Dunne, John	Reconciliation of Observed Variation in Sinking Organic Carbon Transfer Efficiency Through the Twilight Zone via T, O ₂ and Ballast Controls	Marine Carbon Export Estimates Workshop	Bergen, Norway	Yes
6/22/2010	Lin, Shian-Jiann	GFDL High Resolution Global Model for Hurricane Predictions	2010 Western Pacific Geophysics Meeting	Taipei, Taiwan	Yes
6/22/2010	Ramaswamy, V	Absorbing Soot Aerosols, Their Properties, and Climate Change	2010 Western Pacific Geophysics Meeting	Taipei, Taiwan	Yes

GFDL-paid Talks -- Invited and Not-Invited					
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)	Invited
6/19/2010	Rosati, Anthony	Decadal Climate Predictions at GFDL	Australian Bureau of Meteorology Workshop	Melbourne, Australia	Yes
6/17/2010	Held, Isaac	Global Modeling as a Foundation for Regional Perspectives	NOAA Regional Climate Projection Meeting	Silver Spring, MD	Yes
6/3/2010	Stock, Charles	Earth Modeling System Activities at GFDL	Basin-Scale Analysis Synthesis and Integration (BASIN) Meeting	New Brunswick, NJ	Yes
5/24/2010	Ginoux, Paul	Identification of Natural and Anthropogenic Dust Sources and their Evolution for the Past 3 Decades.	Dust Records for a Changing World Conference	Palisades, NY	No
5/17/2010	Hallberg, Robert	NOAA Efforts to Improve Century-Scale Projections of Global Sea Levels Rise	Scripps/DOE Workshop on Sea Level Rise	La Jolla, CA	Yes
5/10/2010	Bender, Morris	Model Projected Impact of Anthropogenic Warming on late 21st Century Intense Hurricane Activity	American Meteorology Society Tropical Meteorology Conference	Tucson, AZ	Yes
5/10/2010	Lin, Shian-Jiann	Dynamical 4D Vortex Initialization for GFDL's Global High-Resolution Hurricane Modeling System	American Meteorology Society Tropical Meteorology Conference	Tucson, AZ	Yes
5/6/2010	Delworth, Thomas	North Atlantic Decadal Variability and Predictability	NASA	Greenbelt, MD	Yes
5/6/2010	Zhang, Rong	Global Climate Impacts of the Atlantic Meridional Overturning Circulation	Institute of Atmospheric Physics, China	Qingdao, China	Yes
5/2/2010	Donner, Leo	Response of Deep Convection to Global Warming	European Geophysical Union Conference	Vienna, Austria	No
5/1/2010	Findell, Kristen	A New Assessment of Land-Atmosphere Feedback Strength	European Geophysical Union Conference	Vienna, Austria	No
4/30/2010	Levy, Hiram	Global Warming is Real: How to Educate Ourselves, Our Children and Our Grandchildren	Bettendorf HS	Bettendorf, Iowa	Yes

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4/29/2010	Ramaswamy, V.	The Multi-Faceted Influence of Aerosols and Climate Change	University of Maryland	College Park, MD	Yes
4/27/2010	Delworth, Thomas	Physical Mechanism Associated with the Atlantic Multi-decadal Oscillation	Meeting of the CRC Committee of NAS	Washington DC	Yes
4/26/2010	Zhang, Rong	The Role of the AMOC in the Global Climate	Peking University	Beijing, China	Yes
4/23/2010	Dunne, John	GFDL's Coupled Carbon-Climate Modeling for the IPCC 5th Assessment	NASA-GISS	New York City, NY	Yes
4/22/2010	Dixon, Keith	5 Things You Should Know About Climate Science	Franklin Institute	Philadelphia, PA	Yes
4/22/2010	Knutson, Thomas	Tropical Cyclone and Climate Change	Tokio Marine's 2010 Summit on Global Warming and Climate Change	Atlanta, GA	Yes
4/21/2010	Held, Isaac	The Recalcitrant Component of Global Warming	M.I.T.	Cambridge, MA	Yes
4/20/2010	Held, Isaac	Grand Challenge in Climate Research	NOAA Science Workshop	Washington, DC	Yes
4/17/2010	Westley, Marian	Innovations in Measuring and Monitoring pH and CO ₂ in the Ocean	The London Convention and London Protocols Scientific Group Meeting	London, UK	Yes
4/15/2010	Delworth, Thomas	GFDL High Resolution Completed Modeling	North Atlantic Subpolar Observing System Workshop	Durham, NC	Yes
4/12/2010	Dixon, Keith	NOAA Regional Climate Literacy Training Workshop	The State of Climate Change Science - An Overview	Narragansett, RI	Yes
4/4/2010	Lau, Ngar-Chueng	ENSO and Asian Monsoon Variability	Scientific Advisory Committee Meeting of the Beijing Climate Center	Beijing, China	Yes
3/29/2010	Gnanadesikan, Anand	Physics and Chemistry of the Ventilated and Unventilated Oceans	Caltech	Pasadena, CA	Yes
3/26/2010	Ramaswamy, V.	Aerosol Physics and Climate	Yale University	New Haven, CT	Yes

GFDL-paid Talks -- Invited and Not-Invited					
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)	Invited
3/24/2010	Gnanadesikan, Anand	Biology and Ocean Circulation: Two-Way Interaction	John Hopkins's University	Baltimore, MD	Yes
3/22/2010	Knutson, Thomas	Tropical Cyclone and Climate Change	NRC Committee	Washington, DC	Yes
3/20/2010	Fan, Songmaio	Simulation of Aeolian Input of Bio-Available Iron to the Ocean	Harvard University	Cambridge, MA	Yes
3/17/2010	Ginoux, Paul	Evaluation of Aerosol Properties with GFDL Atmospheric Model, Satellite and Ground-Based Data	DOE Atmospheric Science Research Meeting	Bethesda, MD	Yes
3/16/2010	Dunne, John	Decoupling of the Temperature-Nutrient Relationship in the California Current Ecosystem with Global Warming	NOAA Central Library	Silver Spring, MD	Yes
3/13/2010	Levy, Hiram	The Present and Future of Greenhouse Gases/Climate Forcing; The GFDL ESM	2010 Southwestern Hemisphere Workshop Series on Climate Changes	Buenos Aires, Argentina	Yes
3/9/2010	Ramaswamy, V.	Climate Model Evolution and CIMP-5 Scenarios	NOAA Workshop on Ensuring Access and Trustworthiness of Climate Observation and Models for Society	Asheville, NC	Yes
3/3/2010	Held, Isaac	Climate Dynamics	DOE Long Term Vision Workshop	Gaithersburg, MD	Yes
3/1/2010	Ramaswamy, V.	(1) Climate Response to Forcings; (2) Aerosols and Climate	King Abdullah University of Science and Technology (KAUST)	Riyadh, Saudi Arabia	Yes
2/22/2010	Harrison, Matthew	Impact of Indonesian Rainfall on Interior Ocean Water Mass Properties	AGU Ocean Sciences Meeting	Portland, OR	Yes
2/22/2010	Zhang, Shaoqing	A Study on the Predictability of the Atlantic Meridional Overturning Circulation Depending on Observing Systems	AGU Ocean Sciences Meeting	Portland, OR	Yes
2/21/2010	Marchok, Timothy	Design and use of the GFDL Vortex Tracker	NCAR	Boulder, CO	Yes

GFDL-paid Talks -- Invited and Not-Invited					
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)	Invited
2/16/2010	Ramaswamy, V	Research Needs for Decadal-to-Centennial Climate Projections and Predictions	World Climate Program	Antalya, Turkey	Yes
2/12/2010	Ramaswamy, V	Global and Asian Climate Change Projections	University of Madras	Madras, India	Yes
2/9/2010	Ramaswamy, V	Role of Aerosols in Asian Climate Change	NOAA-Ministry of Earth Sciences (India) South Asian Regional Reanalysis Workshop	New Delhi, India	Yes
2/1/2010	Knutson, Thomas	Atlantic Hurricanes and Climate Change	Climate Change and Extreme Events Workshop	Washington DC	Yes
1/29/2010	Ramaswamy, V.	Global and Continental-Scale Climate Change and Projections	Climate Change Impacts on Water: An International Adaptation Forum	Washington DC	Yes
1/19/2010	Held, Isaac	IPCC: Personal Perspectives on the Use of Multi-Model Ensembles	National Science Academy Committee Meeting	Boulder, CO	Yes
1/18/2010	Wilson, Robert J.	Modeling the Global Martian Atmosphere	American Meteorology Society Meeting	Atlanta, GA	Yes
1/14/2010	Rosati, Anthony	Decadal Hindcasts and Forecasts at GFDL	Predicting the Climates of the Coming Decades Workshop	Miami, FL	Yes
1/12/2010	Delworth, Thomas	Decadal Prediction Research at GFDL	Predicting the Climate of the Coming Decades Workshop	Miami, FL	Yes
1/12/2010	Levy, Hiram	Strong Sensitivity of Late 21st Century Climate to Projected Changes in Short-Lived Air Pollutants	OAR Senior Research Council	Washington DC	Yes
1/10/2010	Vecchi, Gabriel	Predicting and Projecting Hurricanes Activity Changes	Predicting the Climate of the Coming Decades Workshop	Miami, FL	Yes
12/15/2009	Donner, Leo	On Clocks and Clouds: Confirming and Interpreting Climate Models as Scientific Hypotheses	2009 American Geophysical Union Meeting	San Francisco, CA	Yes
12/15/2009	Harrison, Matthew	Impact of Indonesian Rainfall on Pacific Ocean Water Mass Properties in a Coupled Model	2009 American Geophysical Union Meeting	San Francisco, CA	Yes
12/15/2009	Ramaswamy, V.	Aerosols in Asia and Global-to-Continental Scale Climate Change	2009 American Geophysical Union Meeting	San Francisco, CA	Yes
12/15/2009	Vecchi, Gabriel	Towards the Attribution of Atlantic Tropical Cyclone Activity Changes	2009 American Geophysical Union Meeting	San Francisco, CA	Yes

GFDL-paid Talks -- Invited and Not-Invited					
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)	Invited
11/19/2009	Stouffer, Ronald	GFDL's AR5 Plans	National Academy CRC Meeting	Washington, DC	Yes
11/9/2009	Dixon, Keith	The State of Climate Science and the Climate knowledge Cycle	Climate Adaptation in Coastal Communities: A Network Approach to Outreach Workshop	Charleston, SC	Yes
11/4/2009	Donner, Leo	GFDL Modeling Activities: New Approaches to Clouds, Aerosols, and Convection in GFDL AM3	WGNE Meeting	Offenbach, Germany	Yes
10/29/2009	Dunne, John	Tracers for Oceans Phytoplankton with Allometric Zooplankton	Marine Ecosystems Models Intercomparison Project	Cambridge, UK	Yes
10/21/2009	Ramaswamy, V.	Challenges in Climate Research and Applications	Climate Working Group Fall Meeting	Arlington, VA	Yes
10/14/2009	Dixon, Keith	Challenges in Predicting Decadal Climate Variation Given the Uncertainties in the Understanding and Modeling of Decadal Variability	The 8th Workshop on Decadal Climate Variability	St. Michaels, MD	Yes
10/14/2009	Rosati, Anthony	Nowcasting Decadal Climate Variability: Are Presently Available Observation Sufficient for Nowcasting?	The 8th Workshop on Decadal Climate Variability	St. Michaels, MD	Yes
10/12/2009	Knutson, Thomas	Atlantic Hurricanes and Climate Change	University of Wisconsin-Madison	Madison, WI	Yes
10/7/2009	Zhang, Shaoqing	The Adequacy of Existing Observing System to Monitor AMOC & North Atlantic Climate	The 5th WMO Symposium on Data Assimilation	Melbourne, Australia	Yes
9/23/2009	Knutson, Thomas	Atlantic Hurricanes and Climate Change	Pennsylvania State University	State College, PA	Yes
9/21/2009	Rosati, Anthony	Control on the Ratio of Mesozooplankton Production to Primary Production in Marine Ecosystem	ICES Annual Science Conference	Berlin, Germany	Yes
9/21/2009	Rosati, Anthony	Ocean State Estimation for Climate Research	Ocean Obs 09 Conference	Venice, Italy	Yes
9/17/2009	Winton, Michael	Modeling Anthropogenic Climate Change	Koshland Museum	Washington, DC	Yes

GFDL-paid Talks -- Invited and Not-Invited					
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)	Invited
9/14/2009	Ramaswamy, V.	Future Directions of Chemistry -Climate Interactions	International Global Atmospheric Chemistry (IGAC) "Future Direction" Workshop	London, UK	Yes
8/3/2009	Delworth, Thomas	Decadal Variability and Projections of Future Climate Change	NCAR Marine Ecosystem and Climate Summer Colloquium	Boulder, CO	Yes
7/8/2009	Knutson, Thomas	Atlantic Hurricanes and Climate Change	Lamont-Doherty Earth Observatory	Palisades, NY	Yes
6/23/2009	Knutson, Thomas	Atlantic Hurricanes and Climate Change	Northeast Tropical Conference	Rensselaerville, NY	Yes
6/21/2009	Dixon, Keith	The Atmosphere-Ocean Connection in the Earth's Climate System	AMS Broadcast Mets Pre-Conference Workshop	Portland, OR	Yes
6/20/2009	Sentman, Lori	The Importance of Land Use for the Evaluation of Terrestrial Carbon: Preindustrial Equilibrium or Transient?	QUEST/GLASS Workshop for Benchmarking Land Surface Models	Exeter, UK	Yes
6/17/2009	Zhang, Shaoqing	System Design and Evaluation of Ensemble Coupled Data Assimilation for Global Oceanic Climate Study	Senior Research Council Meeting	Washington DC	Yes
6/15/2009	Delworth, Thomas	CCSP Synthesis Report on Abrupt Climate Change-Atlantic Meridional Overturn Circulation	AGU Chapman Conference	Columbus, OH	Yes
6/15/2009	Rosati, Anthony	GFDL Decadal Prediction	CCSM Workshop	Breckenridge, CO	Yes
6/9/2009	Stock, Charles	From Phytoplankton to Fish: Global Patterns in Energy Flow Through Marine Ecosystems	NOAA	Washington DC	Yes

GFDL-paid Talks -- Invited and Not-Invited					
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)	Invited
6/8/2009	Held, Isaac	Stratospheric Influence on Tropospheric Circulation Through Altered Tropospheric Eddy Phase Speeds	AMS Atmospheric Oceanic Fluid Dynamics and Middle Atmospheric Conferences	Stowe, VT	Yes
5/31/2009	Vecchi, Gabriel	Indian Ocean Climate Change and Variability in GFDL Coupled Model	CLIVAR Indian Ocean Panel Meeting	St. Denis, La Reunion, France	Yes
5/29/2009	Dixon, Keith	Glimpse From Inside the Fascinating World of Modeling (Climate)	NOAA Hollings Scholars Orientation	Silver Spring, MD	Yes
5/26/2009	Held, Isaac	WG1-WG2 Connections from the Perspective of a Global Modeler	Climate Research Committee Meeting	Washington DC	Yes
5/24/2009	Vecchi, Gabriel	Towards Attribution of Atlantic Tropical Cyclone Activity Changes	American Geophysical Union Spring Meeting	Toronto, Canada	Yes
5/24/2009	Vecchi, Gabriel	Towards Attribution of Atlantic Tropical Cyclone Activity Changes	American Geophysical Union Spring Meeting	Toronto, Canada	Yes
5/18/2009	Levy, Hiram	Interactions between Climate and Air Quality	30th NATO/SPS International Technical Meeting on Air Pollution	San Francisco, CA	Yes
5/12/2009	Vecchi, Gabriel	Pacific Response to Global Warming	Florida State University and University of Miami	Tallahassee/Miami, FL	Yes
5/12/2009	Vecchi, Gabriel	Pacific Response to Global Warming	Florida State University and University of Miami	Tallahassee, FL and Miami, FL	Yes
5/4/2009	Delworth, Thomas	Simulated Atlantic Meridional Overturning Circulation (AMOC) Response to Climate Change in a High Resolution Global Coupled Climate Model	US Atlantic Meridional Overturning Circulation (AMOC) Annual Meeting	Annapolis, MD	Yes

GFDL-paid Talks -- Invited and Not-Invited					
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)	Invited
5/4/2009	Rosati, Anthony	Sensitivity of Atlantic Meridional Overturning Circulation (AMOC) Predictability to Observing Systems	US Atlantic Meridional Overturning Circulation (AMOC) Annual Meeting	Annapolis, MD	Yes
5/4/2009	Zhang, Rong	Coherent Surface-Subsurface Fingerprint of the Atlantic Meridional Overturning Circulation	US Atlantic Meridional Overturning Circulation (AMOC) Annual Meeting	Annapolis, MD	Yes
5/4/2009	Zhang, Rong	Coherent Surface-Subsurface Fingerprint of the Atlantic Meridional Overturning Circulation	Atlantic Meridional Overturning Circulation Meeting	Annapolis, MD	Yes
5/3/2009	Marchok, Tim	Evaluation of Rainfall and Wind Structure Forecast in Operational Models and HFIP Model Verification	Hurricane Forecast Improvement Project (HFIP) Workshop	Miami, FL	Yes
5/3/2009	Marchok, Timothy	Evaluation of Rainfall and Wind Structure Forecast in Operational Models and HFIP Model Verification	Hurricane Forecast Improvement Project (HFIP) Workshop	Miami, FL	Yes
4/30/2009	Wilson, R. John	Traveling Waves and Instabilities in the Martian Atmosphere	University of Maryland	College Park, MD	Yes
4/28/2009	Ramaswamy, V.	Quantifying Climate Change: Challenges and Opportunities	Special Session- International Human Dimensions Programs Meeting	Bonn, Germany	Yes
4/25/2009	Hallberg, Robert	Scaling Eddy Parameterizations with Marginally Resolved Eddies	CLIVAR/Working Group on Ocean Model Development (WGOMOD) Workshop on Ocean Mesoscale Eddies	Exeter, UK	No
4/19/2009	Donner, Leo J.	Cumulus Parameterization in the GFDL AR5 General Circulation Model	European Geosciences Union	Vienna, Austria	Yes

GFDL-paid Talks -- Invited and Not-Invited					
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)	Invited
4/19/2009	Freidenreich, Stuart	Analysis of Shortwave Surface Flux Biases in the GFDL GCM	European Geosciences Union	Vienna, Austria	No
4/7/2009	Wittenberg, Andrew	CM3: Tropical Climate and ENSO	GFDL-NCAR Atmospheric GCM Meeting	Princeton, NJ	Yes
3/16/2009	Donner, Leo J.	Cloud Macrophysics, Microphysics, and Aerosol in Climate and NWP Models	NCEP/EMC/CPO Workshop on Parameterization of Cloudiness	Washington, DC	Yes
3/3/2009	Ramaswamy, V.	Unresolved and Under-Resolved issues Concerning Aerosols: Implications for Climate Estimates	Joint IPCC-WCRP-IGBP Workshop: New Science Directions and Activities Relevant to the IPCC AR5	Honolulu, HI	Yes
2/23/2009	Ramaswamy, V.	Modeling of the Earth System	Senate Commerce Committee Staff	Washington, DC	Yes
2/20/2009	Rosati, Anthony	Linkages Between ISI and Decadal/Centennial Time Scales	NOAA Workshop on Intraseasonal and Interannual Prediction	Silver Spring, MD	Yes
2/14/2009	Knutson, Thomas	Has Global Warming Affected Atlantic Hurricane Activity?	American Association for the Advancement of Science Annual Meeting	Chicago, IL	Yes
2/13/2009	Stouffer, Ron	Uncertainty in the Response to Increasing CO ₂	American Association for the Advancement of Science Annual Meeting	Chicago, IL	Yes
2/8/2009	Vecchi, Gabriel	Climate Change and Tropical Circulation	George Mason University	Fairfax, VA	Yes
2/5/2009	Stouffer, Ron	Oceans Role in Climate Changes	Bucknell University	Lewisburg, PA	Yes
2/2/2009	Lin, S.-J.	A Multi-Scale Non-Hydrostatic Modeling System for Tropical Cyclone Predictions	NOAA/AOML	Miami, FL	Yes

GFDL-paid Talks -- Invited and Not-Invited					
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)	Invited
1/23/2009	Zhang, Rong	Coherent Surface-Subsurface Fingerprint of the Atlantic Meridional Overturning Circulation	Lamont-Doherty Earth Observatory	Palisades, NY	Yes
1/21/2009	Lin, S.-J.	GFDL's High-Resolution Simulations and Vision for the Future	Workshop on Climate Models on 100K and 1M Cores	Chicago, IL	Yes
12/14/2008	Wittenberg, Andrew	Understanding ENSO Modulation in the GFDL CM2.1 Coupled GCM	Fall AGU Meeting	San Francisco, CA	No
12/14/2008	Ramaswamy, V.	Spectral Signature of Climate Change at the Top of the Atmosphere	American Geophysical Union	San Francisco, CA	Yes
12/12/2008	Westley, Marian	Ocean Fertilization, Carbon Credits and the Kyoto Protocol	Earth Science Women's Network (ESWN) Career Workshop and AGU	San Francisco, CA	Yes
12/10/2008	Lau, Ngar-Cheung	A Model Investigation on the Role of Air-Sea Interaction in the Climatological Evolution and ENSO-related Variability of the Summer Monsoon over South China Sea and Western Pacific	School of Marine and Atmospheric Science, Stony Brook University	Stony Brook, NY	Yes
12/3/2008	Vecchi, Gabriel	Hurricane and Climate	NOAA HQ	Silver Spring, MD	No
12/2/2008	Bender, Morris	Simulation of Intense Atlantic Hurricanes Activity in a 21st Century Warmed Climate Using the GFDL High-Resolution, Coupled Hurricane Model	Third International Workshop on High-Resolution and Cloud Modeling	Honolulu, HI	Yes
12/2/2008	Delworth, Thomas	Decadal Mechanism of the Atlantic MOC	Fall Meeting of Climate Research Committee of National Academy	Washington, DC	Yes
12/2/2008	Lin, S.-J.	The GFDL High-Resolution Atmosphere Model for Short-Term Forecast and Long-term	Third International Workshop on	Honolulu, HI	Yes

GFDL-paid Talks -- Invited and Not-Invited					
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)	Invited
		Simulation of Tropical Cyclones	High-Resolution and Cloud Modeling		
12/2/2008	Rosati, Anthony	Decadal Prediction: Ocean Initialization and Related Data Issues	Fall Meeting of Climate Research Committee of National Academy	Washington, DC	Yes
11/24/2008	Westley, Marian	Ocean Fertilization, Carbon Credits and the Kyoto Protocol	Climate Working Group and ONE NOAA Seminar	Silver Spring, MD	Yes
11/12/2008	Ramaswamy, V.	Climate Modeling at GFDL: The Scientific Challenge	NCEP	Camp Springs, MD	Yes
11/10/2008	Wilson, R. John	Simulation of the 2001 Planet-Encircling Dust Storms with the NASA/NOAA Mars GCM	Third International Workshop on the Mars Atmosphere: Modeling and Observation	Williamsburg, VA	Yes
11/9/2008	Dunne, John	Coupling Between the C, N, P, Fe, Si, Ca, and Lithogenic Cycles in a Global Ocean Biogeochemical Ecological Model	Conference on Integrating Biogeochemistry and Ecosystems in a Changing Ocean	Miami, FL	No
10/21/2008	Vecchi, Gabriel	Ocean-Atmosphere Coupling Over Warm Pool Regions	CLIVAR-AAMP Meeting and WCRP Monsoon Workshop	Beijing, China	Yes
9/29/2008	Wilson, R. John	Development of MARS Climate Model Using FMS	MARS Climate Modeling Center Workshop	Mountainview, CA	Yes
9/28/2008	Donner, Leo J.	Climate Modeling Issues at GFDL on the EVE of AR 5	NOAA CPPA PI Meeting	Silver Spring, MD	Yes
9/25/2008	Ginoux, Paul	Effect of Dust Decadal Variability on Climate	CEA/LSCE Meeting	Paris, France	Yes
9/12/2008	Levy, Hiram	Impact of Air Pollution on Our Future Climate	University of Iowa Seminar	Iowa City, IA	Yes

GFDL-paid Talks -- Invited and Not-Invited					
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)	Invited
9/10/2008	Gnanadesikan, Anand	Carbon Sequestration by Ocean Iron Fertilization: A Review of the Major Issues	NOAA Seminar	Silver Spring, MD	Yes
9/9/2008	Ginoux, Paul	Dust WRCP: Using Satellite Data in Global Modeling of Dust	3rd International Dust Workshop Leipzig University	Leipzig, Germany	Yes
7/24/2008	Rosati, Anthony	GFDL Coupled Data Assimilation and Mitigation of Decadal Prediction	NOAA Reanalysis	Silver Spring, MD	Yes
7/24/2008	Vecchi, Gabriel	Global Warming and Tropical Circulation, Indo-Pacific Ocean Changes and Global Warming	American Geophysical Union's West Pacific Geophysics Meeting	Cairns, Australia	Yes
6/29/2008	Delworth, Thomas	US-Japan Workshop on Global Change	Decadal Predictability and Prediction, Using the GFDL CM 2.1 Climate Model	Boulder, CO	Yes
6/28/2008	Field, Arlene	Hemispheric Transport of Ozone Pollution: Multi-Model Assessment of the Role of Methane and the Conventional Ozone Precursors	Quadrennial Ozone Symposium	Tromso, Norway	Yes
6/19/2008	Wittenberg, Andrew	Natural Modulation of ENSO in the GFDL CM2.1 Coupled GCM	13 th Annual Community Climate System Model Workshop	Breckenridge, CO	No
6/17/2008	Vecchi, Gabriel	Changes to Large-Scale Circulation and Global Warming	Climate Symposium at the Monte Veritas Center	Zurich, Switzerland	Yes
6/4/2008	Hallberg, Robert	Impact of Overflow and Stratified Shear Mixing on the Antarctic Circumpolar Current	Southern Ocean Workshop	Oxford, UK	No
5/29/2008	Wittenberg, Andrew	Indonesian Through-flow Transports, Variability, and Change in the GFDL Coupled GCMs	International Nusantara Stratification and Transport (INSTANT) Workshop, Lamont-Doherty Earth Observatory	Palisades, NY	No

GFDL-paid Talks -- Invited and Not-Invited					
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)	Invited
5/27/2008	Ramaswamy, V.	Role of Anthropogenic Aerosols in the 20th Century Climate Change	American Geophysical Union Spring Meeting	Fort Lauderdale, FL	Yes
5/23/2008	Field, Arlene	North America as a Source and Receptor of Hemispheric Ozone Pollution: Seasonal Variability, Uncertainties, and Policy Implications	Joint Assembly-American Geophysical Union	Fort Lauderdale, FL	Yes
5/20/2008	Donner, Leo J.	Toward AM3: GFDL's Next-Generation Atmospheric General Circulation Model	National Centers for Environmental Prediction/Goddard Space Flight Center	Greenbelt and Camp Springs, MD	Yes
5/6/2008	Bewtra, Aneet	Workload Management: Collaborative Approaches for Increased User Efficiencies	DICE Alliance 2008	Mason, OH	Yes
4/27/2008	Bender, Morris	Improvements to the Navy's Version of the GFDL Tropical Cyclone Model (GFUN) and Evaluation of its Prediction Skill	American Meteorological Society Hurricane Conference	Orlando, FL	Yes
4/26/2008	Griffies, Stephen	Ocean Mesoscale Eddie	CLIVAR/Working Group on Ocean Model Development (WGOMOD) Workshop on Ocean Mesoscale Eddie	Exeter, UK	No

GFDL-paid Talks -- Invited and Not-Invited					
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)	Invited
4/15/2008	Wittenberg, Andrew	Natural Modulation of ENSO in the GFDL CM2.1 Coupled GCM	EGU General Assembly	Vienna, Austria	No
4/12/2008	Donner, Leo J.	On the Importance for Modeling the general circulation of Closure Theory for Cumulus Parameterization	European Geosciences Union Annual Meeting	Vienna, Austria	Yes
3/2/2008	Donner, Leo J.	Global Indirect Effects of Aerosol Indirect Forcing: IPCC and Beyond (Lifetime Effect)	Dahlen Conference	Frankfurt, Germany	Yes
3/2/2008	Delworth, Thomas	Decadal Predictability of the AMOC as Simulated in the GFDL CM2.1 Model	Ocean Science Meeting 2008	Orlando, FL	Yes
3/2/2008	Dunne, John	Coupling Between the C, N, P, Fe, Si, Ca, and Lithogenic Cycles in a Global Ocean Biogeochemical and Ecological Model	Ocean Science Meeting 2008	Orlando, FL	No
3/2/2008	Zhang, Rong	Impact of the Atlantic Multi-Decadal Oscillation on North Pacific Climate Variability	Ocean Science Meeting 2008	Orlando, FL	Yes
1/27/2008	Knutson, Thomas	Is There a Discernible Human Influence on Hurricane?	International Detection Attribution Group	Boulder, CO	Yes
1/23/2008	Donner, Leo J.	Microphysics in Climate Modeling	American Meteorological Society Annual Meeting	New Orleans, LA	Yes
1/20/2008	Knutson, Thomas	Is There a Discernible Human Influence on Hurricane?	American Meteorological Society Annual Meeting	New Orleans, LA	Yes
11/16/2007	Delworth, Thomas	Abrupt Climate Change	NOAA Climate Program Office	New York, NY	Yes

GFDL-paid Talks -- Invited and Not-Invited					
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)	Invited
11/13/2007	Levy, Hiram	1) Ozone, Soot and Sulfate at the Intersection of Climate; 2) Air Quality, Regional Radiative Forcing; and 3) Regional Climate: Science and Policy Issues	University of Maryland and University of Virginia	College Park, MD and Charlottesville, VA	Yes
11/13/2007	Hallberg, Robert	Impact of Jackson Parameterization in CM2.2	Gravity Current Entertainment Climate Process Team Meeting	Miami, FL	No
11/8/2007	Gross, Brian	NOAA/DOE Partnership on HPC	Climate Working Group Meeting	Washington, DC	No
11/7/2007	Dixon, Keith	Computer Modeling of the Global Climate and its Role in the Assessment of Climate Change	Northeast Regional Operational Workshop	Albany, NY	Yes
11/6/2007	Knutson, Thomas	Hurricanes in a Changing Climate: Key Issues and Remaining Challenges	National Academies' Climate Research Committee	Washington, DC	Yes
11/6/2007	Stern, William	Simulating Equatorial Convective Waves and the MJO in GCMs at GFDL	Madden-Julian Oscillation (MJO) Workshop - New Approaches to Meet the Challenges of the MJO	Irvine, CA	Yes
10/30/2007	Donner, Leo J.	Toward AM3: GFDL's Next-Generation Atmospheric General Circulation Model	UK Met Office Seminar	Exeter, United Kingdom	Yes
10/29/2007	Gnanadesikan, Anand	Ventilation Variability in the North Pacific as Simulated by a Coupled Climate Model	North Pacific Marine Science Organization Annual Meeting	Victoria, Canada	Yes
10/26/2007	Donner, Leo J.	Toward AM3: GFDL's Next-Generation Atmospheric General Circulation Model	High Resolution Modeling Workshop of the Atmosphere Workshop	Reading, United Kingdom	Yes
10/10/2007	Dunne, John	Implementation of Ocean Acidification Parameterizations in Global Modes	Ocean Acidification Workshop	San Diego, CA	Yes

GFDL-paid Talks -- Invited and Not-Invited					
DATES	SPEAKER	TITLE OF PRESENTATION	MEETING	PLACE (CITY)	Invited
10/9/2007	Ginoux, Paul	Aerosol Modeling at GFDL	NOAA Atmospheric Chemical Modeling Workshop	Boulder, CO	No
10/5/2007	Held, Isaac	The Response of the Hydrological Cycle to Global Warming	Berkeley Atmospheric Science Center Symposium	Berkeley, CA	Yes